

Reduction of iron from ores in ...

S/180/62/000/001/002/014  
E111/E135

temperatures giving quickest reduction being above 800 °C.  
Decomposition of hydrocarbons only became appreciable when  
heating was prolonged to 5-10 min, 0.36% C being obtained in  
10 min at 800 °C. No sticking was observed in the range 600 to  
1000 °C. This feature of fountaining fluidized-bed reduction  
is attributed to the good flow conditions and the absence of  
dust in the reaction zone.  
There are 5 figures and 7 tables.

SUBMITTED: May 27, 1961

Card 4/6

VAN DE-ZHUN [Wang Tê-jung] (Moskva); TSYLEV, L.M. (Moskva)

Investigating the effect of the liquid phase on the gas flow  
in a cold blast furnace model. Izv. AN SSSR. Otd. tekhn. nauk.  
Met. i topl. no 4124-98-J1-Ag-61. (MIA 14:8)  
(Blast furnaces--Models)  
(Gas flow)

PANOV, A.S. (Moskva); KULIKOV, I.S. (Moskva); TSYLEV, L.M. (Moskva)

Viscosity of molten calcium oxide - silica - calcium sulfide  
Izv. AN. SSSR. Otd. tekhn. nauk. Mat. i topl. no.3:25-30  
My-Je '61. (MIRA 14:7)  
(Viscosimetry) (Slag--Testing)

CHERNYSHEV, A.M.; TSYLEV, L.M.; GESS-DE-KAL'YE, B.A.

Determining the moisture content of a blast furnace blow.  
Trudy Inst. met no.4:53-57 '60. (MIRA 14:5)  
(Blast furnaces)  
(Hygrometry)

BARDIN, I.P.[deceased]; VAVLOV, N.S.(Moskva); GESS-DE-KAL'VE, B.A.  
(Moskva); DIYEV, V.Ye.(Moskva); YEMEL'YANOV, V.I.(Moskva);  
KANAVETS, P.I.(Moskva); MELENT'YEV, P.N.(Moskva); RUMAKINA, M.A.  
(Moskva); TSYLEV, L.M.(Moskva).

Reduction roasting of iron in ore-fuel granules in a fluidized  
bed with fountain effect. Izv. AN SSSR. Otd.tekh.nauk. Met.i  
topl. no.5:13-18 S-0 '60. (MIRA 13:11)  
(Ore dressing) (Fluidization)

BARDIN, I.P., akad. [deceased]; KULIKOV, I.S; ZUDIN, V.M.; TSYLEV, L.M.;  
SOKOLOV, G.A.; GALATONOV, A.L.; BABARYKIN, N.N.; GUL'TYAY, I.I.

Making low-sulfur cast iron at the Magnitogorsk Combine. Stal' 20  
(MIRA 13:9)  
no.10:865-869 0 '60.  
(Magnitogorsk--Blast furnaces) (Cast iron--Metallurgy)

PELIKOV, L.A. (Moskva); FEDOROV, Ye.K. (Moskva); TSYLINE, L.M. (Moskva)

Sulfatization roasting of Vysokaya Gora iron ores in a fluidized  
bed. Izv. AN SSSR. Tekhn. Nauk. Ser. i topl. no.1:31-35 Ja-1'  
'61. (MIA 14:2)

(Sverdlovsk Province--Iron ores)  
(Ore dressing) (Fluidization)

ARTEMENKO, I.A.; GROMOV, M.I.; TSYLEV, L.M.

Technological processes for extracting concentrates for producing  
thickeners. Biul.tekh.-ekon.inform. no.11:3-4 '60.  
(MIRA 13:11)

(Ore dressing)

TSYLIN, B.F.; AVAYEV, A.M.

Repairing the parts of metal cutters using "Stirakril."  
Mash. i neft. obor. no.4:30-31 '64. (MIRA 17:6)

1. Kubbyshevskiy golotnyy zavod.

TSYLIN, B.N.

Modernizing the TT-44 and TT-44M semiautomatic lathes. Mash. i neft.  
obor. no.4:25-26 '65. (MIRA 18:5)

1. Kuybyshevskiy dolotnyy zavod.

DRYGIN, A.I.; TSYLOV, Yu.A.

Industrial equipment for semicountercurrent extraction. TSvet.  
(MIRA 18:10)  
met. 38 no.6:61-62 Je '65.

TSYLOV, Yu.A. (Moskva); KORPUSOV, G.V. (Moskva); PUSTIL'NIK, A.I. (Moskva)

Density and viscosity of solutions in the system organic solvent rare-earth metal nitrate solution. Izv. AN SSSR. Met. no.3:59-64. My-Je '65.  
(MIRA 18:7)

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LAZAREV, V.B.; TSYLOV, Yu.A.

Surface tensions of some solutions of rare-earth and aluminum  
nitrates. Zhur. neorg. khim. 10 no.1:22-26 Ja '65.  
(N) 24 '65 (3:11)

1. Institut obshchay i neorganicheskoy khimii imeni Kurnakova  
AN SSSR. Submitted May 19, 1964.

ACC NR: AT6028804

(N)

SOURCE CODE: UR/3222/65/000/008/0032/0058

AUTHOR: Krylov, Yu. M. (Doctor of physico-mathematical sciences); Strekalov, S. S.  
(Candidate of physico-mathematical sciences); Tsyplukhin, V. F. (Junior research  
associate)

ORG: none

TITLE: Energy spectrum transformation of wind generated sea waves in coastal zones

SOURCE: Moscow. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'-  
skiy institut morskogo transporta. Trudy, no. 8(14), 1965. Volnovyye issledovaniya;  
izhenernyye izyskaniya (Wave Studies; engineering research), 32-58

TOPIC TAGS: ocean <sup>tide</sup>, spectrum analysis, ocean dynamics

ABSTRACT: An equation for sea waves is found for any shape of the bottom in coastal areas. The simple case of monochromatic waves propagating toward the coast is solved first. The complex nature of a turbulent sea surface is considered next as the first step toward a more realistic solution. The surface is represented (at large distances from the coast) as the sum of a large number of plane waves having different amplitudes, frequencies, directions of propagation, and having random phases uniformly distributed in the interval from 0 to  $2\pi$ . The calculated results were compared with experimental data obtained from measurements made in coastal areas of the Black Sea during 1960-1962. Reduction of wave amplitudes in coastal areas having rectilinear coast lines begins in deep-water areas at considerable distance from the coast.

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ACC NR: AT6028804

Average height of waves in the narrow coastal zone with inclinations of 0.1 to 0.01 at the beginning decreases and then begins to grow intensely up to the moment when the waves break down. Measured frequency spectra are compared with the calculated; transformation of frequency spectrum in the narrow coastal zone with isobaths occurs in accordance with linear theory up to the instant of wave break down. Orig. art. has: 3 formulas, 7 tables, and 11 figures.

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 027/ OTH REF: 006

Card 2/2

ACC NR: AT6028805

(N)

SOURCE CODE: UR/3222/65/000/008/0058/0071

AUTHOR: Tsyplukhin, V. F. (Junior research associate)

ORG: none

TITLE: An approximate method for obtaining a two-dimensional energy spectrum of wind-generated sea waves in coastal zones from recording of three wavegraphs

SOURCE: Moscow. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut morskogo transporta. Trudy, no. 8(14), 1965. Volnovyye issledovaniya; inzhenernyye izyskaniya (Wave studies; engineering research), 58-71

TOPIC TAGS: ocean wave, spectrum analysis, ocean dynamics

ABSTRACT: An approximate method of obtaining two dimensional spectra of wind generated sea waves in coastal zones from recordings of three wavegraphs is described. The method is simple and requires few calculations. In agreement with spectral theory, the turbulent sea surface is examined, with linear approximations, as a superposition of a large number of sinusoidal waves with different amplitudes, frequencies, directions of propagation, and with random phases uniformly distributed in the interval  $-\pi$  to  $\pi$ . By measuring the time-varying slopes of wave surfaces and their fixed coordinate, their correlational and mutually correlational functions are obtained and the wave two dimensional spectra are found. The error of this method is

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ACC NR: AT6028805

within about 10% if distances between wavemeters (that comprise a triangle) are properly chosen. Orig. art. has: 3 formulas and 4 figures.

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 010/ OTH REF: 004

2/2

Card

TSYM, A.Yu., inzh.; CHERKASSKIY, E.S., inzh.

Shortest path in selecting transposition operators. Vest. sviazi 25  
no.8:9-10 Ag '65. (MIRA 18:10)

1. Laboratoriya tresta "Mezhgorsvyazstroy".

TSYMARNYY, V.A. ZAKORUCHENKO, V.A.

Experimental setup for studying the thermal properties of gaseous mixtures. Teplofiz. sys. temp. 3 no.3:473-476 My-Je '65.  
(MIRA 18:8)

I. Odesskiy institut inzhenerov morskogo flota.

TSYMBAL, I.L.

Effect of the errors in parts of a Maltese cross transmission on  
its performance. Stan. i instr. 36 no.9:21 S '65. (MIRA 18:10)

PRILEZHAYEVA, Ye.N.; AZOVSKAYA, V.A.; TSYMBAL, L.V.; GUR'YANOVA, Ye.N.;  
ANDRIANOVA, G.; SHOSTAKOVSKIY, N.F.

Diene condensation of divinyl sulfone, sulfoxide, and sulfide  
with hexachlorocyclopentadiene. Zhar. ob. khim. 35 no.1:39-46  
(MIRA 18:2)  
Ja '65.

SHABANOVA, M.P.; KAGAN, Yu.S.; PRILEZHAYEVA, Ye.N.; TSYMBAL, L.V.;  
MAKHLINA, Ye.Ya.

Relationships between the structure of some esters of dialkyl-  
dithiophosphoric acids and their toxicity for arthropods and  
~~water~~-blooded animals. Trudy VIZR no. 21 pt.1:114-125 '64.  
(MIRA 18:12)

TSYMBAL, S.M.; ZELINSKAYA, V.A. [Zelins'ka, V.O.], SOROCHAN, Ye.A.  
[Sorochan, O.A.]

New find of fauna in the sandy sediments of the Poltavskaya  
series. Geol. zhur. 25 no.3;115-117 '65. (MIRA 18:11)

1. Institut geologicheskikh nauk AN UkrSSR.

DYADCHENKO, M.G. [Diadchenko, M.H.]; KHATUNTSEVA, A.Ya.; TSYMBAL, S.N.  
[TSymbol, S.M.]

Characteristics of the composition of placers in the Ukraine.  
(MIRA 18:2)  
Dop. AN URSR no.2:248-250 '65.

1. Institut geologicheskikh nauk AN UkrSSR.

DYADCHENKO, M.G.; TSYMBAL, S.N.

Titanium minerals from ore of the placers in the Dnieper Valley.  
Min.sbor. 18 no.2:181-187 '64. (MIRA 18:5)

1. Institut geologicheskikh nauk AN UkrSSR, Kiyev.

MATUSHEVSKIY, Ye.V., inzh.; MALININ, M.S., inzh.; OSTROVETSKIY, R.M., inzh.;  
FOMIN, A.V., inzh.; TSYMBAL, V.G., inzh.; CHESNOKOV, M.V., inzh.;  
SHAMARAKOV, D.Ya., inzh.

Start of the K-200-130-1 turbine with PT-100 drum boiler from a cold  
state. Elek. sta. 35 no.9:29-34 S '64.  
(MIRA 18:1)

MASLOVSKIY, P.M.; MAKON, V.D.; TSYMBAL, V.P.

Continucus control of the carbon content in an open-hearth furnace  
bath. Izv.vys.ucheb.zav.; chern.met. & no.6:180-184 '65.  
(MIRA 18:8)

1. Sibirsckiy metallurgicheskiy institut.

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POTASHOV, Innokentiy Yakovlevich; TUMBAL, Yu., red.

[Academician N.A.Ilykachev] Akademik N.A.Ilykachev.  
Iaroslavl', Verkhne-Volzhskoe knizhnoe izd-vo, 1965.  
(MIRA 18:9)  
94 p.

KOTOV, K.I., inzh.; ZHEMBUS, M.D., inzh.; TSYMBALYUK, V.Yu., inzh.

Investigating the composition of gas in the hearth of a blast  
furnace operating on combined blowing. Stal' 25 no.2:97-102  
(MIRA 18:3)  
F '65.

1. Dnepropetrovskiy metallurgicheskiy institut i metallurgicheskiy  
zavod im. Petrovskogo.

KOTOV, K.I.; ZHEMBUS, M.D.; TSYMBALYUK, V.Yu.

Using steam in operating blast furnaces with combined blowing.  
(MIRA 18:3)  
Met. i gornorud. prom. no.1:7-10 Ja-F '65.

LIKHORADOV, A.P.; ZHIGULIN, V.I.; ZHEMBUS, M.D.; RUDAKOV, V.F.; KOTOV, K.I.;  
ZHAK, A.M.; TSYMBALYUK, V.Yu.; FILIMONOV, V.V.

Service of the lining and cooling equipment of a blast furnace  
in the smelting of ferromanganese. Metallurg 10 no.10:12-14  
0 '65. (MIRA 18:10)

1. Zavod im. Petrovskogo.

ORLOV, I.V., kand.tekhn.nauk; BEREZNENKO, N.P. [Bereznenko, M.P.]; LEBEDEVA,  
N.M. [Lebedieva, N.M.]; SAVOSINA, T.V.; TSYMBANENKO, T.Ye. [TSymbanenko,  
T.IE.]

Systems for steam-pressing of clothing made from nonwoven fabrics.  
(MIRA 18:10)  
Ieh.prom. no.2:7-12 Ap-Je '65.

TSYMBEROV, M.YA.

L 15688-65 EWT(d) Po-4/Pq-4/Pg-4/Pk-4/P1-4 ASD-3/AFFTC/ESD-3/APGC  
ACCESSION NR: AP4047481 S/0120/64/000/005/0157/0161

AUTHOR: Levina, L. Ye.; Men'shikov, M. I.; Pavlenko, V. A.; Rabinovich,  
I. S.; Rafal'son, A. E.; Tay\*emberov, M. Ya.; Shutov, M. D.

TITLE: New MKh1101 mass-spectrometric leak detector

SOURCE: Pribory\* i tekhnika eksperimenta, no. 5, 1964, 157-161

TOPIC TAGS: leak detector, mass spectrometric leak detector / MKh1101  
leak detector

ABSTRACT: The new MKh1101 leak detector differs from previous types  
(PTI-4a and PTI-6) in that it has no oil-vapor pump, uses an oxidation-resistant  
cathode, and is calibrated by a reference diffusion-type helium leak. Two lobar  
rotary (Roots) pumps driven by a single motor provide the rough and fine  
vacuums; the equilibrium vacuum is  $(2-5) \times 10^{-4}$  torr. The cathode is stable in  
operation at pressures up to 1 torr. The leak detector sensitivity is  $(1-5) \times 10^{-6}$

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L 15688-65  
ACCESSION NR: AP4047481

lmc/sec for helium and  $5 \times 10^{-4}$  lms/sec for hydrogen. Setting the detector in operation takes only 10 minutes. Orig. art. has: 6 figures.

ASSOCIATION: SKB Analiticheskogo priborostroyeniya AN SSSR (Special Design)  
Office for Analytical Instruments, AN SSSR)

SUBMITTED: 03Jun63

ENCL: 00

SUB CODE:ME

NO REF SOV: 002

OTHER: 000

Card 2/2

LEVINA, L.Ye.; MEN'SHIKOV, M.I.; PAVLENKO, V.A.; RABINOVICH, I.S.;  
RAFAL'SON, A.E.; TSYMBEROV, M.Ya.; SHUTOV, M.D.

New mass-spectrometric leak detector MX 1101. Prib. i tekhn.  
(MIRA 17:12)  
eksp. 9 no.5:157-161 S-O '64.

1. Spetsial'noye konstruktorskoye byuro analiticheskogo  
priborostroyeniya AN SSSR.

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ACCESSION NR: AF4047482

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CIA-RDP86-00513R001757310020-5"

PAVLENKO, V.A.; RAFAL'SON, A.E.; TSYMEEROV, M.Ya.; SHUTOV, M.D.

The MKh 1102 high-sensitivity mass-spectrometric leak  
detector. Prib. i tekhn.eksp. 10 no.5:190-194 S-0 '65.

1. Spetsial'noye konstruktorskoye byuro analiticheskogo priborostroyeniya AN SSSR, Leningrad. Submitted Sept.19, 1964.  
(MIRA 19<sup>st</sup>)

TSYMLYAKOV, L.I.; TARASOV-AGALAKOV, N.A., kand. tekhn. nauk, rukovoditel'  
raboty

Stationary fire extinction system for new enterprises of the  
chemical industry. Pozh. bezop, no.4:116-119 '65.

(MIRA 19:1)

SKALINOV, Ye.I.; TUMILYAKOV, V.Ye.

Antivibration platform for electron microscopes. Izob. delo no.2:  
115-116 '65. (MIR 18:2)

I. Nauchno-kontrol'nyy institut veterinarnih preparatov Ministerstva  
sel'skogo khozyaystva SSSR, Moskva.

ACC NR: AP5023729 (A) SOURCE CODE: UR/0346/65/000/008/0020/0024

AUTHOR: Skalinskiy, Ye. I.; Ageyeva, L. S.; Tsymlyakov, V. Ye.

ORG: State Scientific Control Institute of Veterinary Preparations  
(Gosudarstvennyy nauchno-kontrol'nyy Institut veterinarnykh preparatov)

TITLE: Ultra-thin structure of chicken and pigeon pox viruses *b.4.3*

SOURCE: Veterinariya, no. 8, 1965, 20-24

TOPIC TAGS: animal disease, virus, electron microscopy

ABSTRACT: The first part of the paper is a literature survey of various negative contrast solutions used to study the ultrathin structure of viruses. The second part describes methods of investigating the ultra-thin structure of a pox virus (Laffont strain) found in chickens and a pox virus (GNKI strain) found in pigeons. Parts of the chorioallantoic membrane of chick embryos were taken on the 3rd to 5th day following infection with one of the virus strains and placed on a slide. A few drops of a 10% solution of sodium phosphotungstate (pH 7 to 7.2) or of a 10% solution of mercury dichloride (pH 4) were applied. Then the contrasting solutions were removed from the membrane surfaces with filter paper and the membranes were examined under a UEMV-100 electron

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UDC: 619:616.988.13-094.29

L 18662-66

ACC NR: AP5023729

microscope (10,000 to 30,000 X). The electron micrographs show that the ultrathin structure of virus particles of chicken and pigeon pox virus strains is similar to that of other pox virus species. Reproduction of virus particles in the two pox virus strains starts with the formation of the outer layer of the filament structure. The filament structures of a virus particle represent a helix. It is assumed that the ribosomes participate in the synthesis of pox virus matrices and filaments. The effect of a mercury dichloride solution on a pox virus is expressed in the form of diffused staining of the outer protein layer of the virus particle and the depositing of mercury granules inside the particles. With mercury dichloride applied to the membrane for a moment, only a few small mercury granules were formed; when mercury dichloride was applied for a 5 min period, the granules increased both in number and size. Details of pox virus ultrathin structures are given. (Abstracter's note: No details are given on the effects of the 10% solution of sodium phosphotungstate). Orig. art. has: 4 figures.

SUB CODE: 06/ SUBM DATE: none/ OTH REF: 014

Card 2/2 SW

LOKSHIN, Aleksandr Zinov'yevich; SMIRNOVA, M.K., kand. tekhn. nauk, retsenzent; YEKIMOV, V.V., prof., doktor tekhn. nauk, retsenzent; TSYNDRYA, I.I., kand. tekhn. nauk, retsenzent; SIVERS, N.L., nauchn. red.; KLIORINA, T.A., red.

[Strength of ship plates and span coverings made of glass-reinforced plastics] Ustoichivost' sudovykh plastin i perekrytii iz stekloplastikov. Leningrad, Sudostroenie, 1964.  
(MIRA 17:11)  
90 p.

KARYAKIN, L.I.; TSYNKINA, V.M.

Formation of kotoite and ludwigite in a glass furnace. Dokl. AN SSSR  
163 no. 3:714-717 Jl '65. (MIRA 18:7)

1. Submitted March 15, 1965.

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ing it. In addition to the above, when animals are exposed to frequencies of 10-16 Hz, there is no lethality and they will recover from hypoxia. In animals anesthetized with thalidomide, the frequency of arterial and carotid reflexogenic

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NO REF Sov: 000

OTHER: 000

ATD PRESS: 314

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CIA-RDP86-00513R001757310020-5"

TSYNEKOVA, O.E. (Tsyneva)

Vibrational lift of a fluid. Izv. AN SSSR. Mekh. no.2:43-50  
(MIRA 13:6)  
Mr-Ap '65.

NEFEDOV, P.Ya.; CHERNOBROVKIN, V.P.; KATARIN, V.P.; ANAN'IN, A.A.;  
BALBASHEV, V.K.; RYVKIN, I.Yu.; TSYNOVNIKOV, A.S.; KUZ'MIN, I.V.;  
YAKOVLEV, S.Ye.; SHULAYEV, V.I.; MATSEVICH, S.I.; NARNTSKIY, A.P.;  
BOKOV, O.K.; CHEREPANOV, V.Ye.

Coke briquets for cupola furances. Lit. proizv. no. 3:6-7  
Mr '65. (MIRA 18:6)

MOLODCHININ, Ye.V.; TSYPER, V.A.; MARKIN, M.G.

Equipment and metalworking lubricants in the warm rolling  
of AMg6 alloy pipe. TSvet. met. 38 no. 12:74-76 p.65  
(MIRA 19:1)

TSYPEROVICH, A.S. [TSyperovych, O.S.]; GANICH, I.P. [Halych, I.P.]

Crystallization of  $\alpha$ -amylase of *Aspergillus oryzae* from Soviet  
enzyme preparations. Ukr. biokhim. zhur. 37 no.1:14-23 '65.  
(MIRA 18:5)

1. Institut of Biochemistry of the Academy of Sciences of the  
Ukrainian S.S.R., Kiyev.

TSYPEROVICH, A.S. [TSyperovych, O.S.]; GALICH, I.P. [Halich, I.P.]

Fractionation of bovine gamma globulin on columns of carboxy-methyl- and diethylaminethyl cellulose. Ukr. biokhim. zhur. 35 no.6:931-941 '63. (MIRA 18:7)

1. Institut biokhimii AN UkrSSR, Kiyev.

TSYPEROVICH, A.S. [TSyperovych, O.S.], doktor biolog. nauk

Use of enzymes in the cookery for public eating establish-  
ments. Khar. prom. no.1:49-51 Ja-Mr '65. (MIRA 18:4)

BIBIKOVA, A.F.; BUSYGIN, V.Ye.; GRIGOR'YEV, Yu.G.; KALYAYEVA, T.V.;  
LYUBIMOVA-GERASIMOVA, R.M.; TSYPIN, A.B.

Reaction of the organism to massive  $\gamma$ -irradiation. Pat.  
fiziol. i eksp. terap. 6 no.4:57-62 Jl-Ag '62. (MIRA 17:8)

TSYPIN, A.B.; LEBEDINSKIY, A.V., prof., rukovoditel' raboty

Some direct reactions of the nervous system to the action of  
ionizing irradiation. Biul. eksp. biol. i med. 56 no.9:34-37  
(MIRA 17:10)  
S '63.

1. Predstavlena deyatvitel'nym chlenom AMN SSSR A.V. Lebedinskim.

GARBER, M.Ye.; TSYPIN, I.Z.

Wear resistant alloys. Biul. tekhn.-ekon. inform. Gos. nauch.-  
issl. inst. nauch. i tekhn. inform. 17 no.4:86-87 Ap '64.  
(MIRA 17:6)

ACCESSION NR.: AR4027674

S/0276/64/000/001/B078/B078

SOURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 1B435

AUTHOR: Laymer, D. I.; Bay, A. S.; Tsy\*pin, M. I.

TITLE: Some peculiarities of titanium oxidation in various media

CITED SOURCE: Tr. Gos. n.-i. i proyektn. in-ta splavov i obrabotki tsvetn. met., vy\*p. 21, 1963, 62-68

TOPIC TAGS: titanium, titanium oxidation

TRANSLATION: The authors present the results of studies on the peculiarities of titanium oxidation in air and water vapor media. It is shown that rutile formed during titanium oxidation in air has a composition which is more closely stoichiometric than that formed in the presence of water vapor or carbon oxides, which in all probability tends to increase the rate of titanium and oxygen ion diffusion. It can be supposed that the acceleration of the oxidation process under these conditions leads to the simultaneous alteration of the composition of scale on the titanium (a deviation from the stoichiometric relationship for

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ACCESSION NR: AR4027674

TiO<sub>2</sub>) and the morphological characteristics of scale with a constant phase composition. Bibliography with 10 titles.

DATE ACQ: 03Mar64

SUB CODE: ML

ENCL: 00

Card 2/2

ACCESSION NR: AR4018339

s/0137/64/000/001/1099/1099

SOURCE: RZh. Metallurgiya, Abs. 11644

AUTHOR: Layner, D. I.; Bay, A. S.; Tsy\*pin, M. I.

TITLE: Certain features of the oxidation of titanium in various media

CITED SOURCE: Tr. Gos. n.-i. i proyektn. in-ta splavov i obrabotki tsvetn. met., vy\*p. 21, 1963, 62-68

TOPIC TAGS: titanium oxidation, rutile

TRANSLATION: In the presence of CO, CO<sub>2</sub>, and H<sub>2</sub>O vapors, the rate of Ti oxidation increases appreciably. The electrical resistivity of the scale in the latter case is  $\sim 10^4$  ohm-cm, whereas it is  $3-4 \times 10^{10}$  ohm-cm after oxidation in air. It is postulated that rutile, which forms upon oxidation in the presence of CO, CO<sub>2</sub>, and H<sub>2</sub>O, has a composition which is further from stoichiometric, and this causes an increase in the diffusion rate of ions of O and Ti in the scale. In this case, the rapid diffusion of Ti ions leads to the formation of a layer with a columnar structure on the outer side of the scale. The observation of two layers in the scale is an indirect confirmation of the presence of interdiffusion of Ti and O ions.

Card 1/2

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ACCESSION NR: AR4018339

L. Gomozov

SUB CODE: GC, MM

ENCL: 00

Card 2/2

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CIA-RDP86-00513R001757310020-5

results of experiments on ---  
... to characterize the catalytic activity of --- orig. art. has:

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CIA-RDP86-00513R001757310020-5"

L 18853-66 EMP(e)/EWT(m) WH  
ACC NR: AT6006475

SOURCE CODE: UR/2680/65/000/024/0086/0092

AUTHOR: Layner, D. I.; Tsypin, M. I.; Slesareva, Ye. N.; Bay, A. S. B+1 59

ORG: State Scientific-Research Planning Institute of Alloys and the Processing of Nonferrous Metals (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov)

TITLE: The mechanism of electroconductivity in rutile  $TiO_2$  and the application of the Wagner-Khauffe theory to oxidation processes in titanium and its alloys<sup>15</sup>

SOURCE: Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov. Trudy, no. 24, 1965. Metallovedeniye i obrobka tsvetnykh metallov i splavov (Metal science and the treatment of nonferrous metals and alloys), 86-92

TOPIC TAGS: titanium, titanium alloy, oxidation, oxide formation, titanium dioxide, electric conductivity, diffusion coefficient, defect structure

ABSTRACT: The effects of alloying on the oxidation of titanium were studied. Kinetic curves-- $\Delta m$  (mg/cm<sup>2</sup>) as a function of  $t$  (min)--at 700°, 900° and 1000°C showed that the oxidation of Ti, Ti-Nb (5 at %) and Ti-Ta (5 at %) in air and in steam was

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ACC NR: AT6006475

parabolic and therefore, diffusion controlled. Alloying slowed the oxidation especially at the start and reached a low of 0.01% for Nb and Ta additions. A logarithmic relationship was observed between the ratio  $\Delta m_{Ti}/\Delta m_{alloy}$  as a function of alloying for the same oxidation temperature and time. The ratio of impurities was equal to the ratio of the diffusion coefficients of the ions in the scale:

$$\Delta m = k_{p_i} \tau^2 = 2D_i \tau^2$$

and  $\frac{\Delta m_0}{\Delta m} = \frac{D_{Ti}}{D_{alloy}}$

Since  $D$  was proportional to the concentration of defect ions,  $\Delta m$  was proportional to concentration during oxidation. An analysis of the data was made by applying the Wagner-Khauffe theory of electroconductivity in oxides. A direct correlation was made between the conductivity of the scales measured at room temperature and  $\Delta m_0/\Delta m$  for the alloys at different temperatures of oxidation in air and steam. By increasing the concentration of pentavalent ions, the electroconductivity of the scales at room temperature rose by several orders as a result of the lowering of Ti ions in interstitial positions. During oxidation, the specific conductivity is a result of nonstoichiometric defects in the scale while the magnitude of the change

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L 18853-66

ACC NR: AT6006475

in conductivity is dependent on the actual types of defects and their charge valency. Difficulties in explaining quantitative data are due to the formation of multi-layered scales and the dependence of their concentration gradients on temperature and time of oxidation. Orig. art. has: 4 figures, 2 formulas.

SUB CODE: 11/ SUBM DATE: 00/ ORIG REF: 013/ OTH REF: 006

Card 3/3 *fw*

TSYPIN, N.V.

Diamond rolls for straightening grinding wheels. Mashinostroitel'  
(MIRA 17:11)  
no. 10:9-10 O '64.

KASUM-ZADE, D.S.; YADULIAYEV, N.N.; SHFRSTNEV, N.M.; DZHALILOV, N.M.;  
TSYPIN, S.B.

Analyzing the performance of bits and turbodrills in the  
Kyurovdag area. Sbor. nauch.-tekhn. inform. Azerb. inst.  
nauch.-tekhn. inform. Ser. Neft. prom. no.6:36-41 '63.  
(MIRA 18:9)

DZHALILOV, N.M.; TSYPIN, S.B.; SHAKHMALIYEV, R.N.; SANTUROVA, T.M.

Investigating the performance of bits and turbodrills in the  
Zyrya and Karadag areas. Sber. nauch.-tekhn. inform. Azerb.  
inst. nauch.-tekhn. inform. Ser. Neft. prom. no.6:94-104 '63.  
(MIRA 18:9)

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CIA-RDP86-00513R001757310020-5"

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CIA-RDP86-00513R001757310020-5

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APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757310020-5"

L 7862-66 EWT(n)/ETC/EWG(m)/EPF(n)-2  
ACC NR: AP6001206

SOURCE CODE: CZ/0038/65/011/006/0201/0206

AUTHOR: Cypin, S.G.--Tsypin, S.G.; Sinicyn, B.I.--Sinitsyn, B.I.; Daruga, V.K.

ORG: Institute of Power Engineering, Obninsk (Fyzikalne energeticky institut)

TITLE: Investigation of hydrogenless shielding for nuclear reactors

SOURCE: Jaderna energie, v.11, no.6, 1965, 201-206

TOPIC TAGS: nuclear reactor shield, nuclear reactor technology, neutron shielding, radiation shielding

ABSTRACT: Experimental investigations and computations of neutron transmission through hydrogenless shields are reviewed. The possibilities of using simple empirical formulas to estimate the shielding properties of some materials, particularly of mixtures were examined. The values obtained showed good agreement with the experimental results, within an accuracy of 10 to 20 percent. The authors thank A.I. Leipunsky and I.I. Bondarenk for the valuable remarks and advice concerning the presentation of this work. Orig. art. has: 2 figures, 4 formulas, and 5 tables. [NAY]

SUB CODE: 18 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 007 /  
SOV REF: 017

UDC: 621.039.538

Card 1/1

BELOV, S.P.; DOLIN, V.A.; KAZANSKIY, Yu.A.; POPOV, V.I.; TSYRIN, S.G.

Experimental study of shielding on an RIZ test-stand. Atom. energ.  
18 no.2:136-140 F '65.  
(MIRA 18:3)

DARUGA, V.K.; NIKOLAYEV, A.N.; PINKHASIK, D.S.; SINITSYN, B.I.; TSYPIN, S.G.

Fast neutron propagation through sodium. Atom. energ. 17 no. 2:  
145-146 Ag '64 (MIRA 17:8)

TSYPINA, E.I.; ZABELESHINSKIY, Yu.A.

Technical and economic evaluation of the method of production  
of double superphosphate with the use of fluosilicic acid.  
Trudy NIUIF no.208:188-200 '65. (MIRA 18:11)

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CIA-RDP86-00513R001757310020-5

YEMEL'YANOV, D. (Omsk); TSYLIN, I. (Leningradskaya oblast')

At the battle post. Pozh.delo 5 no.12:29 D '59.  
(MIRA 13:4)  
(Firemen)

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CIA-RDP86-00513R001757310020-5"

ISIL'kin, F. A.

blizhaishie piat' let Ways of development of agriculture in the USSR during the next five years Moskva, Gos. izd-vo, 1930. 144p. (Biblioteka sotsial'no-ekonomicheskikh znanii) (53-56054)

TSYL'KO, F. A.

The development of Soviet agriculture in the next five years Moskva, Gos. izd-vo, 1930.  
144 p. (Biblioteka sotsial'no-ekonomicheskikh znanii) (53-56054)

HC335.T82

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757310020-5

TSYL'KO, F. A.

Ways of development of agriculture in the U.S.S.R. during the next five years Moskva,  
Gos. izd-vo, 1930. 144 p. (Biblioteka sotsial'no-ekonomicheskikh znanii). (53-56054)

HC335.T82

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"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757310020-5

TOPIC TAGS: surface tension, Rehbinder apparatus, lanthanum nitrate, density  
of liquids, density of gases, methylidene

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APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757310020-5"

TSYMAKHOVSKAYA, G.Yu. [TSymakhovs'ka, H.IU.]; TSISARZH, V.Ya.

Manufacture of nonwoven wadding with the gluing method. Leh. prom.  
no.3:11-13 Jl-S '64. (MIRA 17:10)

KOROBTSOV, I., dotsent; TSYMARNYY, A., inzhener.

Some problems connected with the functioning of ship repair yards.  
Mor.flot. 16 no.3:19-21 Mr '56. (MLRA 9:7)

1.Odesskiy institut inzhenerov morskogo flota (for TSymarnyy)  
(Ships--Maintenance and repair)

1. TSIMARNYY, A: LIMNITSKIY, G: KOLTUNOV, S.
  2. USSR (600)
  4. Babbitt Metal
  7. Method of melting and pouring babbitt by means of hydrogen flame.  
Mor. flot. 12. no. 12. 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

TSYMARNYY, A., inzhener; HUSNAK, N., inzhener; FEL'DMAN, L., inzhener.

Use of laminated wood plastic in deadwood bearings. Mor.i rech.flot 13  
no.3:17-18 Jy '53. (MIRA 6:8)  
(Bearings) (Wood, Compressed)

TSYMARNYY, A.K.

KOROBTSOV, Ivan Maksimovich; BEN'KOVSKIY, Dmitriy Dmitriyevich; ULITSKIY,  
Leonid Vladimirovich; GAL'VER, Grigoriy Gedeonovich; TSYMARNYY,  
A.K., red.; SHERKO, G.S., red. izd-vo; LAVRENOVA, N.B., tekhn. red.

[Problems in the organization and technology of ship repairing]  
Voprosy organizatsii i tekhnologii sudoremonta. Moskva, Izd-vo  
"Morskoi transport," 1958. 101 p. (MIRA 11:7)  
(Ships--Maintenance and repair)

YELEMA, V.A.; ZAGORUCHENKO, V.A.; TSYMARNYY, V.A.

Experimental investigation of the thermal properties of casing  
head gas. Izv. vys. ucheb. zav.; neft' i gaz 7 no.8:89-92 '64.  
(MIRA 17:10)

1. Odesskiy institut inzhenerov morskogo flota.

TSYMBAL

Category: USSR / Farm Animal Diseases Caused by Bacteria and Fungi. V-2

Abs Jour: Refer. Zhur-Biologiya, No 16, 1957, 72292

Author : Lysenko, Tsympal, Kulabachnaya

Inst : Not given

Title : The Study of Preventive and Healing Properties of Bivalent Immune Sera of Paratyphoid and B. Coli in Calves, Prepared by Different Methods, as Applied to Calves.

Orig Pub: Nauch. Tr. Ukr. In-t Experim. Vet., 1956, 23, 205-215

Abstract: In thorough tests with calves it was found that the antiparatyphoid and Anti- B. Coli sera, prepared by the "UIEV" method, in its prophylaxis and treatment surpasses the serum prepared by the method of "GNKI" in the treatment of calves. The latter, with its preventive effect, possesses the property of complicating in a number of cases the specific infectious process.

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TSYMBAL, A. M., LYSENKO, I. P.

*Taymuk*

Candidates of Veterinary Sciences, Ukrainian  
Scientific-Research Institute of Experimental  
Veterinary Medicine.

"Experimental Methods for the Associated Combined Immunization of Swine  
against the Most Dangerous Infectious Diseases."

Veterinariya, Vol. 38, No. 1, p. 30, 1961.

17(2, 10)

SOV/16-59-9-33/47

AUTHOR: Lysenko, I.P., Tsymbal, A.M. and Kul'bachnaya, M.Z.

TITLE: On the Pathogenesis of Listerellosis. Author's Summary

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959,  
Nr 9, pp 127 (USSR)

ABSTRACT:  
The aim of the work was to study the connection between the development of experimental listerellosis in guinea pigs and the degree of disturbance of the body's barrier fixation function. It was found that, where this function was artificially disturbed, listerellosis developed in most (66.6%) of the animals. The other animals in this group were cleared of Listerella within 29 days. Where the barrier fixation function was not disturbed the infection did not, as a rule, evince or develop any clinical symptoms and the animals were free of Listerella within 29 days. If the barrier fixation function then was disturbed in this second group of animals 12 days after the start of the test, clinically pronounced listerellosis was provoked in some of the animals and in some of the others the period, during which Listerella were present in the body, was extended. The results suggest that

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On the Pathogenesis of Listerellosis. Author's Summary SOV/16-59-9-33/47

the decisive role in the pathogenesis of listerellosis in susceptible, but not highly-sensitive, animals is the body's general power of resistance. A weakening of the resistance, particularly by disturbance of the barrier fixation function, can lead to the development of a clinically pronounced form of listerellosis.

ASSOCIATION: Ukrainskiy veterinarnyy institut (Ukrainian Veterinary Institute)

SUBMITTED: January 20, 1959

Card 2/2

TSYMBAL, A. M.

"Study of Tissue Vaccines against Aujeszky's Disease." Cand Vet Sci,  
Khar'kov Veterinary Inst, Khar'kov, 1953. (RZhBiol, No 5, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher  
Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

*SYNTHAL, H.V.*

AGALINA, M.S., inzh.; AKUTIN, T.K., inzh.; APRESOV, A.M., inzh.; ARISTOV, S.S., kand. tekhn. nauk.; BELOSTOTSKIY, O.B., inzh.; BERLIN, A.Ye., inzh.; BESSKIY, K.A., inzh.; BLYUM, A.M., inzh.; BRAUN, I.V., inzh.; BRODSKIY, I.A., inzh.; BURAKAS, A.I., inzh.; VAYNMAN, I.Z., inzh.; VARSHAVSKIY, I.N., inzh.; VASIL'YEVA, A.A., inzh.; VORONIN, S.A., inzh.; VOYTSEKHOVSKIY, L.K., inzh.; VRUBLEVSKIY, A.A., inzh.; GERSHMAN, S.G., inzh.; GOLUBYATNIKOV, G.A., inzh.; GORLIN, M.Yu., inzh.; GRAMMATIKOV, A.N., inzh.; DASHEVSKIY, A.P., inzh.; DIDKOVSKIY, I.L., inzh.; DOBROVOL'SKIY, N.L., inzh.; DROZDOV, P.F., kand. tekhn. nauk.; KOZLOVSKIY, A.A., inzh.; KIRILENKO, V.G., inzh.; KOPELYANSKIY, G.D., kand. tekhn. nauk.; KORETSKIY, M.M., inzh.; KUKHARCHUK, I.N., inzh.; KUCHER, M.G., inzh.; MERZLYAK, M.V., inzh.; MIRONOV, V.V., inzh.; NOVITSKIY, G.V., inzh.; PADUN, N.M., inzh.; PANKRAT'YEV, N.B., inzh.; PARKHOMENKO, V.I., kand. biol. nauk.; PINSKIY, Ye.A., inzh.; POLOUBENYY, S.A., inzh.; PORAZHENKO, F.F., inzh.; PUZANOV, I.G., inzh.; REDIN, I.P., inzh.; REZNIK, I.S., kand. tekhn. nauk.; ROGOVSKIY, L.V., inzh.; HUDEMAN, A.G., inzh.; RYBAL'SKIY, V.I., inzh.; SADOVNIKOV, I.S., inzh.; SEVER'YANOV, N.N., kand. tekhn. nauk.; SEMESHKO, A.T., inzh.; SIMKIN, A.Kh., inzh.; SURDUTOVICH, I.N., inzh.; TROFIMOV, V.I., inzh.; FEFER, M.M., inzh.; FIALKOVSKIY, A.M., inzh.; FRISHMAN, M.S., inzh.; CHERESHNEV, V.A., inzh.; SHESTOV, B.S., inzh.; SHIFMAN, M.I., inzh.; SHUMYATSKIY, A.F., inzh.; SHCHERBAKOV, V.I., inzh.; STANCHENKO, I.K., otv. red.; LISHTIN, G.L., inzh., red.; KRAVTSOV, Ye.P., inzh., red.; GRIGOR'YEV, G.V., red.; KAMINSKIY, D.N., red.; KRASOVSKIY, I.P., red.; LEYTMAN, L.Z., red. [deceased]; GUREVICH, M.S., inzh., red.; DANILEVSKIY, A.S., inzh., red.; DEMIN, A.M., inzh., red.; KAGANOV, S.I., inzh., red.; KAUFMAN, B.N., kand. tekhn. nauk., red.; LISTOPADOV, N.P., inzh., red.; MENDELEVICH, I.R., inzh., red. [deceased];

(continued on next card)

AGALINA, M.S.... (continued) Card 2.

PENTKOVSKIY, N.I., inzh., red.; ROZENBERG, B.M., inzh., red.; SLAVIN,  
D.S., inzh., red.; PEDOROV, M.P., inzh., red.; ~~TSYMBAL, I.V.~~, inzh., red.;  
SMIRNOV, L.V., red. izd-va.; PROZOROVSKAYA, V.L., tekhn. red.

[Mining ; an encyclopedic handbook] Gornoje delo; entsiklopedicheskii  
spravochnik. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po ugel'noi'  
promyshl. Vol. 3.[Organization of planning; Construction of surface  
buildings and structures.] Organizatsiia proektirovaniia; Stroitel'stvo  
zdanii i sooruzhenii na poverkhnosti shakht. 1958. 497 p. (MIRA 11:12)

(Mining engineering)

(Building)